

Amendments to the Claims:

1. (Currently amended) Dental polymer film for coating tooth surfaces, ~~characterised in that the polymer film comprises~~ comprising polymerisable groups.
2. (Currently amended) Dental polymer film according to claim 1, ~~wherein in which~~ at least ~~some one~~ one of the polymerisable groups ~~are~~ is an acrylate or methacrylate ~~groups~~ group.
3. (Currently amended) Dental polymer film according to claim 1, wherein the film contains ~~or 2, which is on the basis of~~ polyurethanes, Michael addition resins or other polyadducts.
4. (Currently amended) Dental polymer film according to claim 1, wherein any ~~one of claims 1 to 3, in which~~ at least a part of the polymerisable groups is radically polymerisable.
5. (Currently amended) Dental polymer film according to claim 1, wherein any ~~one of claims 1 to 4, in which~~ at least a part of the polymerisable groups is cationically polymerisable.
6. (Currently amended) Dental polymer film according to claim 1, further comprising an initiator ~~any one of claims 1 to 5, which comprises initiators~~ for the thermal, photochemical or redox-induced polymerisation of the polymerisable groups.
7. (Currently amended) Dental polymer film according to claim 6, wherein the initiator is ~~which comprises the initiators~~ in micro-encapsulated form.
8. (Currently amended) Dental polymer film according to claim 1, any one of ~~claims 1 to 7, which~~ further comprises organic or inorganic fillers.

9. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 8~~, which further comprises one or more polymerisation inhibitors.

10. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 9~~, which further comprises one or more antioxidants.

11. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 10~~, which further comprises one or more dyes and/or pigments.

12. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 11~~, which further comprises a primer.

13. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 12~~, wherein the side of the polymer film facing the tooth surface is coated with a primer for the hard tooth substance.

14. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 13~~, which further comprises an anti-adhesive additive.

15. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 14~~, wherein the side of the polymer film facing away from the tooth surface is coated with an anti-adhesive additive for plaque.

16. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 15~~, which further comprises one or more active substances, ~~and in particular one or more~~ antimicrobial compounds, ~~and/or one or more~~ antibiotics.

17. (Currently amended) Dental polymer film according to claim 1, ~~any one of claims 1 to 16~~, which is detachably held on a carrier film.

18. (Original) Dental polymer film according to claim 17, wherein the carrier film is in the form of an inflatable film bag.

19. (Currently amended) Dental polymer film according to claim 17 ~~or 18~~, wherein the carrier film is translucent.

20. (Currently amended) Coated tooth surface comprising a ~~Use of the~~ dental polymer film according to claim 1 ~~according to any one of claims 1 to 19 for the coating the~~ of tooth ~~surfaces~~ surface.

21. (Currently amended) Coated tooth surface ~~Use~~ according to claim 20, wherein
a) the polymer film ~~according to any one of claims 1 to 19~~ is applied to the tooth surface and fitted thereto by forming, and
b) the polymerisable groups of the polymer film applied and fitted are polymerised.

22. (Currently amended) Method for coating a tooth surface, comprising wherein
a) applying the polymer film according to claim 1 ~~any one of claims 1 to 19~~ ~~is applied~~ to the tooth surface and fitted ~~fitted~~ thereto by forming, and
b) polymerizing the polymerisable groups of the applied and fitted polymer film ~~applied and fitted are polymerised~~.

23. (Currently amended) Method according to claim 22, wherein, for the coating of a tooth surface in the approximal space, the approximal space is expanded by means of a tooth separator, the surface to be coated is cleaned and the surface is conditioned by means of an etching technique, after which an adhesive is applied to the tooth surface thus prepared and the polymerisable polymer film ~~according to any one of claims 1 to 19~~ is introduced into the approximal space and positioned against the tooth surface and the ~~its~~ polymerisable groups are polymerised after forming, to produce a coating.

24. (Currently amended) Kit comprising a dental polymer film according to claim 1 ~~any one of claims 1 to 19~~ for sealing and mechanical protection of the tooth surface and an adhesive for fixing the polymer film to the tooth surface.